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Substitute for form 1449/PTO

Complete if Known**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/717,814
Filing Date	November 20, 2003
First Named Inventor	Jeremy Buc Slay et al.
Art Unit	3676
Examiner Name	Unassigned
Attorney Docket Number	1301-1161

1 of 1

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SKP		European Patent Office; European Search Report; February 23, 2005; 3 pages.	
SKP		MACFARLANE; "How seawater, temperature, pressure degrade polymeric materials"; Materials Science/Engineering; Offshore - www.offshore-mag.com; December 2000; 2 pages.	
		SANVITO, G.; "Peroxide Vulcanised Perfluoroelastomers"; Macplas; 27: No. 235; Issn: 0394-3453; January/February 2002; Pages 108-110.	
SKP		"Oilfield Engineering with Polymers Conference"; 4th MERL Conference, London, UK; Rapra Technology Ltd & MERL Limited; November 3-4 2003; Pages 248-258.	

Examiner Signature	<i>John Paul</i>	Date Considered	3/10/2006
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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Sheet 1 of 2

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
SKP		US- Re. 36,452	12-21-1999	Upton et al.	
		US- 6,123,337	09-26-2000	Fang et al.	
		US- 2002/0052434 A1	05-02-2002	Lichtenhan et al.	
		US- 2002/0055581 A1	05-09-2002	Lorah et al.	
		US- 2003/0039816 A1	02-27-2003	Wang et al.	
		US- 6,536,542 B1	03-25-2003	Fang et al.	
		US- 6,554,070 B2	04-29-2003	Genolet et al.	
		US- 2003/0187124 A1	10-02-2003	Hirata et al.	
		US- 2005/0109544 A1	05-26-2005	Ray et al.	
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SKP		WO 98/10012	03-12-1998	Raychem Corporation		
		JA 11-293089 JP 11-293089	10-26-1999	Sumitomo Bakelite		
		CN 1289812	04-04-2001	Li Shirong		
		JA 2001-168849 JP 2001-158849	06-12-2001	Kuraray Co Ltd		
		WO 03/072646	09-04-2003	Siemens Aktiengesell		
		JA 2004-075707 JP 2004-075707	03-11-2004	Sekisui Chem Co Ltd		

Examiner Signature	Sandra D. P. 02	Date Considered	3/10/2006
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Sheet 2

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SKP		JA 2004-132486 JP 2004-132486	04-03-2004	NSK Ltd		
SKP		JA 2004-148634 JP 2004-148634	05-27-2004	Toppan Printing Co Ltd		

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SKP ↓		US- 5,169,887	12-08-1992	Snow et al.	
		US- 5,385,984	01-31-1995	Blohm et al.	
		US- 5,552,469	09-03-1996	Beall et al.	
		US- 5,578,672	11-26-1996	Beall et al.	
		US- 5,698,624	12-16-1997	Beall et al.	
		US- 5,721,306	02-24-1998	Tsipursky et al.	
		US- 5,760,121	06-02-1998	Beall et al.	
		US- 5,804,613	09-08-1998	Beall et al.	
		US- 5,830,528	11-03-1998	Beall et al.	
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		US- 5,849,830	12-15-1998	Tsipursky et al.	
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		US- 6,057,396	05-02-2000	Lan et al.	
		US- 6,083,559	07-04-2000	Beall et al.	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
SKP ↓		EP 1 211 282 A1	06-05-2002	Herrmann et al.		
		DE 100 59 237 A1	06-20-2002	Herrmann et al.		
		WO 02/079308 A1	10-10-2002	Bremser et al.		

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SKP		US- 6,090,734	07-18-2000	Tsipursky et al.	
		US- 6,107,387	08-22-2000	Kaylo et al.	
		US- 6,124,365	09-26-2000	Lan et al.	
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		US- 6,228,903	05-08-2001	Beall et al.	
		US- 6,232,388	05-15-2001	Lan et al.	
		US- 6,235,533	05-22-2001	Tsipursky et al.	
		US- 6,242,500	06-05-2001	Lan et al.	
		US- 6,251,980	06-26-2001	Lan et al.	
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		US- 6,391,449	05-21-2002	Lan et al.	
		US- 6,407,155	06-18-2002	Qian et al.	
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		US- 6,462,122	10-08-2002	Qian et al.	

FOREIGN PATENT DOCUMENTS

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SKP		BUC SLAY et al.; "What Engineers Need to Know About Seals and Sealing Technology"; Energy Rubber Group - 2003 Fall Technical Symposium; September 16, 2003; pages 1-24.	
		ALEXANDER GALEZEWSKI et al.; "Thermosetting Cellular Elastomers Reinforced with Carbon Black and Silica Nanoparticles"; Journal of Elastomers and Plastics; Vol. 33; January 2001; pages 13-33.	
		"Polymer Preprints"; Division of Polymer Chemistry, Inc.; American Chemical Society; Volume 42, Number 2; Fall 2001; pages 885-886.	
		MICHELE VACATELLO; "Molecular Arrangements in Polymer-Based Nanocomposites"; Macromol Theory Simul. 2002, 11, No. 7; pages 757-765.	
		"Nanomaterials - A Big Market Potential"; Chemical Week; October 16, 2002; pages 17-20.	
		"Organic/Inorganic Hybrid Polymer/Clay Nanocomposites"; NASA Tech Briefs; December 2003; page 21.	
		Prof. E.P. GIANNELIS; "Polymer Nanocomposites"; Cornell University; page 1-2.	
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		SUSMITA SADHU et al.; "Acrylonitrile Butadiene Rubber Based Nanocomposites: Preparation and Mechanical Properties"; Presented at a meeting of the Rubber Division, American Chemical Society; Paper No. 42; October 14-17, 2003; pages 1-12.	

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SKP		ABHIJIT BANDYOPADHYAY et al.; "Synthesis and Characterization of Acrylic Rubber/Silica Nanocomposites by Sol-Gel Technique"; Presented at a meeting of the Rubber Division, American Chemical Society; Paper No. 43; October 14-17, 2003; pages 1-20.	
		LIMING DAI et al.; "Polymer and Aligned Carbon Nanotube Nanocomposites"; Presented at a meeting of the Rubber Division, American Chemical Society; Paper No. 39; October 14-17, 2003; pages 1-14.	
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		SHANNON M. LLOYD et al.; "Life Cycle Economic and Environmental Implications of Using Nanocomposites in Automobiles"; ACS Publications; April 28, 2003; pages 3458-3466.	
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		HORNG-LONG TYAN et al.; "Thermally and Mechanically Enhanced Clay/Polyimide Nanocomposite via Reactive Organoclay"; ACS Publications; May 11, 1999; 1 page.	

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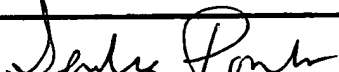
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		BRET J. CHISHOLM et al.; "Nanocomposites Derived from Sulfonated Poly (butylene terephthalate)"; Macromolecules; December 21, 2001; pages 5508-5516.	
		J.E. MARK; "Some Recent Theory, Experiments, and Simulations on Rubberlike Elasticity"; ACS Publications; August 6, 2002; 1 page.	
		FRANCIS W. STARR et al.; "Molecular Dynamics Simulation of a Polymer Melt with a Nanoscopic Particle"; Macromolecules; December 3, 2001; pages 4481-4492.	
		YUQIN LI et al.; "A differential Scanning Calorimetry Study of the Assembly of Hexadecylamine Molecules in the Nanoscale Confined Space of Silicate Galleries"; ACS Publications; December 21, 2001; 1 page.	
✓		Q.H. ZENG et al.; "Molecular Dynamics Simulation of Organic-Inorganic Nanocomposites: Layering Behavior and Interlayer Structure of Organoclays"; ACS Publications; October 6, 2003; 1 page.	

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**INFORMATION DISCLOSURE
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Complete if Known

Application Number	10/717,814
Filing Date	November 20, 2003
First Named Inventor	Jeremy Buc Slay et al.
Art Unit	3676
Examiner Name	Unassigned
Attorney Docket Number	1301-1161

Sheet


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of

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OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS

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		CYNTHIA A. MITCHELL et al.; "Dispersion of Functionalized Carbon Nanotubes in Polystyrene"; Macromolecules; June 10, 2002; pages 8825-8830.	
		"Buckytube Properties & Uses"; Carbon Nanotechnologies Incorporated; 1 page.	
		"General Information About Nanomers"; Nanocor; 2 pages.	
		"Polymer Benefits"; Nanocor; 2 pages.	
		"Nanoclays for Plastics"; Elementis Specialties; 1 page.	
		"About Bentonite"; Laviosa Chimica Mineraria; 1 page.	
		"Carbon Nanotubes: A Small-Scale Wonder"; Newsfront; February 2003; 2 pages.	
		DANIEL T. COLBERT; "Single-wall nanotubes: a new option for conductive plastics and engineering polymers"; Plastics Additives & Compounding; January/February 2003; 7 pages.	
		TIE LAN et al.; "Applications of Nanomer in Nanocomposites: From Concept to Reality"; Nanocor; June 25-27, 2001; 10 pages.	

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	3676
	Unassigned
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Filing Date	November 20, 2003
First Named Inventor	Jeremy Buc Slay et al.
Art Unit	3676
Examiner Name	Unassigned
Attorney Docket Number	1301-1161

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		JUNCHAO HUANG et al.; "Preparation and Properties of Polyimide-POSS Nanocomposites; POSS Nanotechnology Conference 2002; September 2002; 6 pages.	

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		Filing Date	November 20, 2003
		First Named Inventor	Jeremy Buc Slay
		Art Unit	3676
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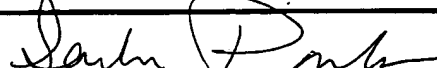
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